

## Supplementary Text File 1

### Sequences of TK receptors used in phylogenetic tree in Fig. 5

>Anoga\_NTLR

MSESVLELLINCTQATILRFPWSTDNTTVIGELNRTEVLDVLGEMITRSRG  
YVPKEFITECLFPTTKSPYELPWQLKTAVGVVFGAMLLVAITGNCIVLWIVLA  
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ANMSVASSVFTLVAISFDRYIAIVHPLRHRTSRKKARIFLIIWALSCVLAAPCL  
MYSTVMTKRYNNNGKTRTVCYMLWPDGRYPTSMADYIYNLVFLILTYGIPMLI  
MIVCYSLMGRELWGSRSIGEHTERQLESMKSKKVSVRMFIIIVTIFACICWL  
PYHLFFFVYAYHNNQMTSSSYVQQQLYLGFYWLAMSNAMEVNPIIYYWMNGRF  
RVYFQEIIFCCLQFINSRMRDGVPGVLLNKNSELGRYRSYRPRSVSV  
RWRPPSTEYRMRTGLPRPAHLGVNVLESAANGGSDKQPVVDIAELQTINF  
LHLNHNSNELQHSSSSNSHEFS

>Anoga\_TKR

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RESSPPTLVAGPYPEPN GTAESMYQTMDFFSILPLWRLIVWNVLFAGIVITAT  
VGNLIVWIVLSHKRMRTVTNYFLGADAMVSTLNFTNYTYMLYLDWPFGT  
MYCKISQFVAILSICASVFTLMAIAIDMNPLKPRMGKKATLCVAASIIVGTIIS  
CPSLLFFTTYPMDHILCYAEWPDGPSNHSRQEYYNIVFMLLTYFLPIGSMT  
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YFILTSYYPELTKKPYIQEVYLAIYWLAMSNSMYNPIIYCWMNLRFRRGFQZF  
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>Astru\_LuqR1

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SIALALPAALFTTLESQGGSTFCTDGAWEDSLVYSLICMVLQYFLPLAVLMGA  
YIRIGKRIWGRRTPGVEAERDKKMSESKARLVKMFAТИVLLFALCYMPIQIY  
TIMQDSNRSILSFYYIKIVYLCCLLSAMSNCVYNPFIYCWMMNIKFRNGFRSVF  
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>Astru\_LuqR2

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PTAIYTSVYVENGITYCSEEWDRQRGNYSFATMVLQYFLPLAVLAMAYSRIGIR  
IWARKTPGEMEANRDRRMTESKIRLVKMFAVVVFLFAICYLPIHTFNIVQDVY  
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>Astru\_TKR1

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STSASVLSLVAISIDRYRAIVHPLLPRLSKSYIVCMIIIFIWGGSSIFASPLLVYST  
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GVKLWRGDVLGEYIPNRARQLKAKRKVVKMIIIVIAVFAICWFPLHVYQFLGY  
LHEEVYTQSYAVHIYSTIWTIAMSSSMYNPFIYCWLNDRFRAGFKRVFHCLI  
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>Astru\_TKR2

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>Bacdo\_NTLR

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VISCLLAAPCLL  
YSSTMKTYYNGKSRTVCFMLWPDGCRYPTSISDYAYNIIILTYGIPMVVMLI  
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>Bacdo\_TKR

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>Bommo\_NTLR(A32)

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>Bommo\_NTLR(A33)

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>Bommo\_TKR(A24)

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>Braflo\_TKR

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>Capte\_LuqR

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>Capte\_TKR

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>Cioin\_TKR

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>Cragi\_TKR

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>Danre\_Tacr1a

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>Danre\_Tacr1b

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>Danre\_Tacr2

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>Danre\_Tacr3a

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>Danre\_Tacr3b

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>Danre\_Tacr3c

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>Drome\_NTLR

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>Drome\_RYar

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>Drome\_TKR

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>Galga\_NK1R

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>Galga\_NK3R

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>Homsa\_NK1R

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>Homsa\_NK2R

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>Homsa\_NK3R

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>Hypdu\_TKR

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>Ixosc\_RYaR

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>Lymst\_LuqR

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>Musmu\_NK1R

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>Musmu\_NK2R

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>Musmu\_NK3R

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>Octvu\_TKR

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>Pladu\_LuqR

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>Ramva\_TKR

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>Sacko\_LuqR1

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>Sacko\_TKR1

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>Sacko\_TKR2

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GFR  
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RWL  
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>Sacko\_TKR3

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>Sacko\_TKR4

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>Sacko\_TKR5

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>Sacko\_TKR6

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>Tetur\_NTLR

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>Tetur\_RYaR

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>Tetur\_TKLR1

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>Tetur\_TKLR2

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>Tetur\_TKLR3

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>Tetur\_TKR

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>Trica\_NTLR

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>Trica\_RYaR

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>Trica\_TKR

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>Varde\_NTLR

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>Varde\_TKR

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